

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Cancel claim 1 without prejudice and substitute therefor new claims 4-18 as follows:

Listing of Claims:

In the claims:

Claims 1-3 (canceled).

4. (New) A substantially pure Pin1 polypeptide comprising an amino acid sequence substantially the same as amino acid residues 5-43 of SEQ ID NO:2 and having protein-protein interaction activity, or a functional fragment thereof.

5. (New) The substantially pure Pin1 polypeptide of claim 4, wherein said protein-protein interaction activity comprises NIMA association activity.

6. (New) The substantially pure Pin1 polypeptide of claim 4, comprising a conservative variation in an amino acid residue.

7. (New) The substantially pure Pin1 polypeptide of claim 4, comprising the same amino acid sequence as amino acid residues 5-43 of SEQ ID NO:2, or a functional fragment thereof.

8. (New) A substantially pure Pin1 polypeptide comprising an amino acid sequence substantially the same as amino acid residues 59-163 of SEQ ID NO:2 and having protein-protein interaction activity, or a functional fragment thereof.

9. (New) The substantially pure Pin1 polypeptide of claim 8, wherein said protein-protein interaction activity comprises PPlase activity.

10. (New) The substantially pure Pin1 polypeptide of claim 8, comprising a conservative variation in an amino acid residue.

11. (New) The substantially pure Pin1 polypeptide of claim 8, comprising the same amino acid sequence as amino acid residues 59-163 of SEQ ID NO:2, or a functional fragment thereof.

12. (New) A substantially pure Pin1 polypeptide comprising an amino acid sequence substantially the same as SEQ ID NO:2 and having antigenic activity to a Pin1 antibody, or an antigenic fragment thereof.

13. (New) The substantially pure Pin1 polypeptide of claim 12, wherein said amino acid sequence comprises substantially the same as amino acid residues 5-43 of SEQ ID NO:2, or an antigenic fragment thereof.

14. (New) The substantially pure Pin1 polypeptide of claim 13, comprising a conservative variation in an amino acid residue.

15. (New) The substantially pure Pin1 polypeptide of claim 13, comprising the same amino acid sequence as amino acid residues 5-43 of SEQ ID NO:2, or an antigenic fragment thereof.

16. (New) The substantially pure Pin1 polypeptide of claim 12, wherein said amino acid sequence comprises substantially the same as amino acid residues 59-163 of SEQ ID NO:2, or an antigenic fragment thereof.

17. (New) The substantially pure Pin1 polypeptide of claim 16, comprising a conservative variation in an amino acid residue.

18. (New) The substantially pure Pin1 polypeptide of claim 12, comprising the same amino acid sequence as amino acid residues 59-163 of SEQ ID NO:2, or an antigenic fragment thereof.